

WHAT IS CLAIMED IS:

1. An optical system configured to guide light emitted from a lamp source to an image display region of a reflection type display device along a predetermined optical path, to reflect a light component for forming an image to be projected by said image display region of said reflection type display device, and to project a reflected light component onto a predetermined screen, wherein

5 a light guiding member for reflecting therein light entering through a light entering surface several times to cause light having a uniform illumination distribution to 10 outgo from a light outgoing surface is inserted into an optical path between said lamp source and said reflection type display device, and

15 said light outgoing surface of said light guiding member is formed in a dissimilar shape with said image display region of said reflection type display device, and a region irradiated with light in said image display region is smaller than said image display region.

2. The optical system according to claim 1, wherein

said light guiding member is a rectangular tube member having a reflection surface on an inner surface thereof that faces a hollow space,

20 said optical system comprising a light shielding member for shielding light passing outside said reflection surface.

3. The optical system according to claim 2, wherein

25 said light shielding member is a light shielding plate provided independently of said light guiding member.

4. The optical system according to claim 2, wherein
said light shielding member is provided on an end face of said rectangular tube
member.

5

5. A projection type image display apparatus configured to guide light emitted from a lamp source to an image display region of a reflection type display device along a predetermined optical path, to reflect a light component for forming an image to be projected by said image display region of said reflection type display device, and to
10 project a reflected light component onto a predetermined screen, wherein

a light guiding member for reflecting therein light entering through a light entering surface several times to cause light having a uniform illumination distribution to outgo from a light outgoing surface is inserted into an optical path between said lamp source and said reflection type display device, and

15 said light outgoing surface of said light guiding member is formed in a dissimilar shape with said image display region of said reflection type display device, and a region irradiated with light in said image display region is smaller than said image display region.

20 6. The projection type image display apparatus according to claim 5, wherein
said light guiding member is a rectangular tube member having a reflection surface on an inner surface thereof that faces a hollow space,
said projection type image display apparatus comprising a light shielding member for shielding light passing outside said reflection surface.

25

7. The projection type image display apparatus according to claim 6, wherein said light shielding member is a light shielding plate provided independently of said light guiding member.

5 8. The projection type image display apparatus according to claim 6, wherein said light shielding member is provided on an end face of said rectangular tube member.